

### References

1. Reihsaus, E., M. Innis, N. MacIntyre, and S.B. Liggett. 1993. Mutations in the gene encoding for the  $\beta_2$ -adrenergic receptor in normal and asthmatic subjects. *Am J Resp Cell Mol Biol* 8:334-339.
2. Liggett, S.B. 1995. Functional properties of human  $\beta_2$ -adrenergic receptor polymorphisms. *News in Physiologic Sciences* 10:265-273.
3. Green, S., J. Turki, M. Innis, and S.B. Liggett. 1994. Amino-terminal polymorphisms of the human  $\beta_2$ -adrenergic receptor impart distinct agonist-promoted regulatory properties. *Biochem* 33:9414-9419.
4. Green, S.A., G. Cole, M. Jacinto, M. Innis, and S.B. Liggett. 1993. A polymorphism of the human  $\beta_2$ -adrenergic receptor within the fourth transmembrane domain alters ligand binding and functional properties of the receptor. *J Biol Chem* 268:23116-23121.
5. Green, S.A., J. Turki, P. Bejarano, I.P. Hall, and S.B. Liggett. 1995. Influence of  $\beta_2$ -adrenergic receptor genotypes on signal transduction in human airway smooth muscle cells. *Am J Resp Cell Mol Biol* 13 :25-33.
6. Liggett, S.B. 1996. The genetics of  $\beta_2$ -adrenergic receptor polymorphisms: relevance to receptor function and asthmatic phenotypes. In *The Genetics of Asthma*. S.B. Liggett and D.A. Meyers, editors. Marcel Dekker, New York. 455-478.
7. Turki, J., J. Pak, S. Green, R. Martin, and S.B. Liggett. 1995. Genetic polymorphisms of the  $\beta_2$ -adrenergic receptor in nocturnal and non-nocturnal asthma: evidence that Gly16 correlates with the nocturnal phenotype. *J Clin Invest* 95:1635-1641.
8. Hall, I.P., A. Wheatley, P. Wilding, and S.B. Liggett. 1995. Association of the Glu27  $\beta_2$ -adrenoceptor polymorphism with lower airway reactivity in asthmatic subjects. *Lancet* 345:1213-1214.

9. Martinez, F.D., P.E. Graves, M. Baldini, S. Solomon, and R. Erickson. 1997. Association between genetic polymorphisms of the beta2-adrenoceptor and response to albuterol in children with and without a history of wheezing. *J Clin Invest* 100:3184-3188.
10. Dewar, J.C., J. Wilkinson, A. Wheatley, N.S. Thomas, I. Doull, N. Morton, P. Lio, J. Harvey, S.B. Liggett, I.S. Holgate, and I.P. Hall. 1997. The glutamine 27  $\beta_2$ -adrenoceptor polymorphism is associated with elevated immunoglobulin E levels in asthmatic families. *J Allergy Clin Immunol* 100:261-265.
11. Tan, S., I.P. Hall, J. Dewar, E. Dow, and B. Lipworth. 1997. Association between beta 2-adrenoceptor polymorphism and susceptibility to bronchodilator desensitization in moderately severe stable asthmatics. *Lancet* 350:995-999.
12. Green, S.A., A.P. Spasoff, R.A. Coleman, M. Johnson, and S.B. Liggett. 1996. Sustained activation of a G protein coupled receptor via "anchored" agonist binding: Molecular localization of the salmeterol exosite within the  $\beta_2$ -adrenergic receptor. *J. Biol. Chem.* 271:24029-24035.